AUTODOC

How to change: BMW E82 spark plugs – replacement guide

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
BMW 1 (E81) 130 i, BMW 1 (E87) 130 i, BMW 1 Convertible (E88) 125 i, BMW 1 Coupe (E82) 125 i, BMW 3 (E90) 330 i, BMW 5 (E60) 530 i, BMW 5 Touring (E61) 530 i, BMW 6 (E63) 630 i, BMW 6 Convertible (E64) 630 i, BMW 7 (E65, E66, E67) 730 i, Li, BMW 7 (F01, F02, F03, F04) 730 i, Li, BMW X3 (E83) 3.0 si, BMW X3 (E83) xDrive 30 i, BMW X3 (F25) xDrive 28 i, BMW X5 (E70) 3.0 si, BMW Z4 Roadster (E85) 3.0 si, BMW Z4 Roadster (E89) sDrive 30 i

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The steps may slightly vary depending on the car design.

REPLACEMENT: SPARK PLUGS – BMW E82. TOOLS YOU'LL NEED:

- Electronic spray
- High-temperature anti-seize lubricant
- HEX bit no.H5.
- Drive socket # 8
- Spark plug socket # 16
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Microfibre towel
- Fender cover

Replacement: spark plugs – BMW E82. AUTODOC experts recommend:

- The replacement procedure is the same for all spark plugs.
- Warning! Shut down the engine before starting any work – BMW E82.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Open the hood.

2

Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3

Unscrew the fasteners of the cabin filter housing cover. Use a drive socket #8. Use a ratchet wrench.

4

Remove the cabin filter housing cover.

Replacement: spark plugs – BMW E82. Tip:

- Do not apply excessive force when removing the part. Otherwise you may damage it.

5

Remove the wiper arm covers.

6

Detach the connectors from the climate control sensors.

7

Remove the climate control sensors.

8

Unscrew the fasteners of the lower part of the scuttle panel. Use a drive socket #8. Use a ratchet wrench.

9

Detach the cable duct from the upper part of the microfilter housing. Use a flat screwdriver.

10

Remove the lower part of the scuttle panel.

11

Unscrew the engine cover fastener. Use HEX No.H5. Use a ratchet wrench.

12

Remove the engine cover.

AUTODOC recommends:

- Replacement: spark plugs – BMW E82. Do not use excessive force when removing the part as this may damage it.

13

Unplug the connectors from the ignition coils.

14

Take out the ignition coil from the spark plug well.

Replacement: spark plugs – BMW E82. AUTODOC recommends:

- Remember the sequence of steps for ignition coil demounting.

15

Cover the cabin filter air ducts with a microfibre cloth to keep dirt and dust out.

16

Clean dirt, dust and debris from inside the spark plug wells.

17

Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.

18

Take out the spark plugs. Use the spark plug socket #16.

19

Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs.

20

Install the new spark plugs into their mounting seats. Use the spark plug socket #16.

21

Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 27 nm torque.

Replacement: spark plugs – BMW E82. Tip from AUTODOC experts:

- Don't tighten the plugs with excessive force. Exceeding tightening torque can damage the thread connection.
- Be careful when working with a spark plug wrench. Its skewing can cause damage to the threaded connection.

22

Treat the ignition coil tips. Use high-temperature grease. Use a flat screwdriver.

23

Install the ignition coils to the spark plug wells. Make sure you hear a click indicating that it is locked in place.

AUTODOC recommends:

- Replacement: spark plugs – BMW E82. Follow the installation steps.

24

Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.

25

Plug in the connectors of the ignition coils.

26

Remove the microfibre cloth from the cabin filter air ducts.

27

Install the engine cover and secure it.

AUTODOC recommends:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Replacement: spark plugs – BMW E82. Do not use excessive force during installation. This may damage the fasteners.

28

Screw in the engine cover fasteners. Use HEX No.H5. Use a ratchet wrench.

29

Reinstall the lower part of the scuttle panel.

30

Screw in the fasteners of the lower part of the scuttle panel. Use a drive socket #8. Use a ratchet wrench.

31

Install the climate control sensors.

32

Attach the connectors of the climate control sensors.

33

Install the wiper arm covers.

34

Attach the cable duct to the upper part of the microfilter housing.

35

Reinstall the cabin filter housing cover. Make sure you hear a click indicating that it is locked in place.

Replacement: spark plugs – BMW E82. Tip from AUTODOC:

- Do not apply excessive force when installing the part. Otherwise you may damage the fasteners.

36

Screw in the fasteners of the cabin filter housing cover. Use a drive socket #8. Use a ratchet wrench.

37

Remove the fender protection cover.

38

Close the hood.

39

Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.

40

Shut off the engine.

DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO

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